



UNIVERSITY OF
TORONTO

ALL ABOUT ASTRONOMY
The oldest meteorites,
teaching and Science
Rendezvous: it's all here
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APRIL 28, 2009 62nd year, number 17

the Bulletin

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CALL FOR PARTICIPATION CAREER CONVERGENCE

The Organizational
Development and Learning
Centre has created a program
designed to appeal to U of T
staff at any point along their
career paths. The event
features a keynote speech by
career management expert
Barbara Moses, a trio of
workshops and an interview
with Mark Franklin, host of
the Career Buzz radio show.
The workshops offer guidance
on adding joy to the work day,
managing your career plan
and networking. Career
Convergence takes place May
6 in the atrium of the Bahen
Centre at 40 St. George St. and
runs from 8:30 a.m. to 12:30
p.m. Staff members from all
three campuses are welcome.
For registration and information,
visit <http://www.utoronto.ca/hrhome/odlc/carconf09/carconf09.htm>.

[WWW.NEWS.UTORONTO.CA/
BULLETIN.HTML](http://WWW.NEWS.UTORONTO.CA/BULLETIN.HTML)

New College principal heads to U of T Scarborough as dean

BY ELAINE SMITH

Success breeds success, so after overseeing an effective financial recovery process at New College, Principal **Rick Halpern** has been selected as the new vice-principal (academic) and dean at the University of Toronto Scarborough.

Academic Board's agenda committee approved the appointment of Halpern, a history professor, succeeding Professor **Ragnar-Olaf Buchweitz**, whose term ends June 30. Halpern's five-year term will begin July 1.

"This is a unique opportunity to contribute to the growth of UTSC and to play an important leadership role within the university at a time when it faces both formidable challenges and unprecedented opportunities," said Halpern. "It is clear that over the next few years there will be a tremendous widening of intellectual bandwidth at UTSC and an institutionalization of fertile cross-disciplinary programming on a number of levels; I look forward to working with colleagues there on this exciting project."



Professor Rick Halpern

Halpern has strong credentials, both academically and administratively. He earned his PhD in history at the University of Pennsylvania and moved from there to the Department of History at University College, London. U of T recruited him in 2001 as the first Bissell-Heyd-Associates Professor of American Studies. From 2004 to 2006, following terms as associate director and then acting director, he served as director of the Centre for the Study of the United States at the Munk Centre for International Studies. Halpern is a senior fellow at Massey College and since 2006 he has served as principal of New College.

Halpern is a specialist in modern U.S. history. His work is situated between the social sciences and humanities,

... NEW ON PAGE 4

Future forensic scientists



CAZ ZVATKAUSKAS

Students from area high schools learned first-hand about forensics as they extracted DNA from fruit during TD Discovery Day in Health Sciences at the Faculty of Medicine.

Architecture dean named

BY ELAINE SMITH

As Toronto reshapes itself to meet the challenges of the 21st century, U of T's John H. Daniels Faculty of Architecture, Landscape, and Design welcomes a new dean who specializes in the urban environment.

Academic Board's agenda committee has approved the appointment of Professor **Richard Sommer**, a member of the architecture and urban design faculty at Harvard University's Graduate School of Design, as dean of the faculty for a five-year term beginning July 1. He succeeds Professor **George Baird**.

"Professor Sommer is a perfect fit for

a university so closely entwined with the city where it is located," said Professor **Cheryl Misak**, U of T's vice-president and provost. "We look forward to welcoming him to both the university and the city"

Sommer, an architect and urbanist, has taught at Harvard since 1998, serving as director of the school's urban design programs for the past six years. He has also held a number of other distinguished academic appointments. For the past four years, he has been a Visiting American Scholar and the O'Hare Chair in Design and Development at the University

... BLUEPRINT ON PAGE 4

Researchers definitively link breast cancer, smoking

BY ANJUM NAYYAR

U of T researchers and experts from the Dalla Lana School of Public Health and colleagues from across North America unveiled a comprehensive report April 23 linking both active smoking and second-hand smoke to breast cancer.

Young women exposed to second-hand smoke are at increased risk of breast cancer, said the report from an expert panel convened by the Ontario Tobacco Research Unit, an affiliate of the Dalla Lana School, with support from the Public Health Agency of Canada.

"Even moderate exposure to passive smoking, such as living or working with a smoker early in life, increases a woman's risk of breast cancer when she is in her 30s, 40s and 50s," said Professor **Anthony Miller**, a physician and associate director of research at the Dalla Lana School.

The Ontario Tobacco Research Unit published the report, based on the expert panel's review of the latest evidence. While there have been a large number of studies exploring the link between breast cancer and tobacco smoke, individually they have been

... BREAST ON PAGE 6

LETTER FROM THE EDITOR

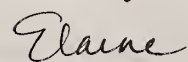
As May approaches ...

let's change the Ontario licence plate tagline, Yours to Discover, to read Science, Yours to Discover. May 9 marks the second annual **Science Rendezvous**, a celebration of science and technology that takes place throughout the Greater Toronto Area. All three Toronto-based universities, a number of hospitals and other organizations have banded together to display, demonstrate and discuss scientific ideas, practices and technologies. It's an opportunity to showcase a broad array of topics that are most often considered academic disciplines, rather than fields that are dynamic, challenging and fun.

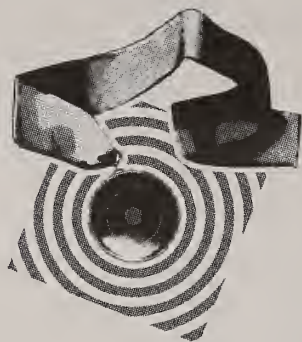
If we can enjoy the results of an artist's work, why can't we do the same for the work of a scientist? No reason in the world, say many U of T faculty, staff and students, and they'll be here May 9 to walk the talk. Astronomy will be front and centre during the International Year of Astronomy (see story on page 8) with the opportunity to get up close and personal with massive telescopes. There's plenty more to experience on the St. George campus, too. There's a science carnival featuring Volcano Alley and science buskers and historical figures come back to life to discuss their discoveries. On the stage, there's Science Idol, and for those eager to put their science skills to the test, there's the Amazing Science Chase problem-solving game.

Science is one of U of T's calling cards in the wider world and one that brings us great acclaim. Why not take a moment to experience its excitement and bask in the pride?

Cheers,



Elaine



FACULTY OF APPLIED SCIENCE & ENGINEERING

Professor Milica Radisic of chemical engineering and applied chemistry and the Institute for Biomaterials and Biomedical Engineering is this year's recipient of the Breaking the Glass Ceiling Award of the Women in Science and Engineering (WISE), University of Toronto, presented annually to a female professor and researcher who not only leads in her field of research but also inspires those around her. Radisic's research focus is cardiac tissue engineering and biomaterials and in 2008 she was named as one of the Top 35 Innovators Under 35 by *Technology Review*, published by the Massachusetts Institute of Technology. Radisic received the award April 13 during the WISE annual general meeting.

Professor Molly Shoichet of chemical engineering and applied chemistry is the winner of the Clara Benson Award of the Canadian Society for Chemistry, recognizing distinguished contributions to chemistry by a woman working in Canada. Shoichet will receive the award during the Canadian Chemistry Conference and Exhibition May 30 to June 3 in Hamilton, Ont. The Canadian Society for Chemistry is the national technical association representing the field of chemistry

AWARDS & HONOURS

and the interests of chemists in industry, academia and government.

SCHOOL OF CONTINUING STUDIES

The School of Continuing Studies has been recognized by the University Continuing Education Association (UCEA) in its Strategic Marketing Awards program. The school won seven awards (five gold and two silver) for its advertising campaign and publications. Entries are evaluated by a team of judges made up of higher continuing education and private sector marketing industry professionals. UCEA is the pre-eminent U.S. organization for continuing higher education and has member institutions throughout the United States, Canada and around the world.

OISE, U OF T

Professor **Ruth Hayhoe** of theory and policy studies in education is the recipient of a Lifetime Achievement Award, given by the Higher Education Special Interest Group (SIG) of the Comparative International Education Society (CIES). Hayhoe was cited "for a lifetime of profound contribution, leadership and research in comparative and international higher education." The Higher Education SIG is made up of scholars, educators and students from a range of professional backgrounds and includes members from every major global region who have an interest in the broad area of international post-secondary education. Hayhoe received the award March 22 during the CIES 2009 conference in Charleston, S.C.

COMPILED BY AILSA FERGUSON

University Professor elected to American Academy of Arts and Sciences

BY ELAINE SMITH

University Professor Spencer Barrett of ecology and evolutionary biology is among the foreign honorary members elected for 2009 to the American Academy of Arts and Sciences.

The academy, founded in 1780 by future U.S. president John Adams and other scholar-patriots of his era, has included among its elected membership such notables as poet Henry Wadsworth Longfellow, naturalist John Audubon and inventor Alexander Graham Bell. Past foreign honorary members elected include statesman Winston Churchill and scientist Stephen Hawking. This year's class includes 210 new fellows and 19 foreign honorary members, with former South African president Nelson Mandela, actress Judi Dench and singer Bono joining Barrett in that group.

Barrett, Canada Research Chair in evolutionary genetics, is one of the world's leading authorities on the reproductive biology and genetics of flowering plants. He is also known as an outstanding teacher, mentor and communicator of science.

Election to the academy is one in a series of prestigious awards Barrett has earned. He is one of the few Canadian biologists outside the health sciences to be elected to both the Royal Society of Canada and the Royal Society of London. He won the Natural Science and Engineering Council of Canada's EWR Steacie Memorial Fellowship in 1988 and was awarded the province of Ontario's inaugural Premier's Discovery Award in Life Science and Medicine in 2007. He has also received the highest awards given by the Botanical Society of America and the Canadian Botanical Association.

Barrett, who has served on the editorial boards of many international journals, is also the author of more than 200 peer-reviewed articles and is one of the most frequently cited authors in plant evolutionary biology.

After giving an April 20 research seminar at the Department of Integrative Biology at the University of Texas, Austin, Barrett's hosts informed him of his election to the academy.

"It was a pleasant surprise and a great honour," he said in an e-mail.

U of T administrators were less modest in lauding his accomplishments.

"Spencer Barrett is a brilliant ecologist and evolutionary biologist. As a teacher he has not only made his mark on scores of graduate students but is one of this country's most laudable and dedicated teachers of first-year undergraduates. It is wonderful to see him recognized by such an illustrious and selective organization," said Professor **Cheryl Misak**, vice-president and provost.

Professor **Paul Young**, vice-president (research), added, "Membership in the American Academy of Arts and Sciences is one of the most esteemed honours in the field of research and scholarship. Spencer is highly deserving of this rich honour and we are extremely proud of him for his leadership and accomplishments."

This year's membership class at the academy includes scholars, scientists, jurists, writers, artists, and civic, corporate and philanthropic leaders from 28 states and 11 countries, ranging in age from 33 to 83. They will be inducted at a ceremony Oct. 10 at the academy's headquarters in Cambridge, Mass.



Learn more about the environment while exploring a new one!

Enjoy Brunch With *the Bulletin* at U of T Scarborough.

Meet Team Bulletin and enjoy a break with your colleagues.

Thursday, May 14, 2009
Brunch at Noon
Program 12:30 to 1:30 p.m.
AA 160, Council Chamber

Topic:
Environmental
Concerns

Moderator: Professor Franca Vaccaro, vice-president and principal

Speakers:

Professor **George Arhonditsis** of physical and environmental sciences, discussing the effects of climate change on freshwater ecosystem dynamics

Professor **Rudy Boonstro** of biological sciences, discussing climate change's impact on the north

Professor **John Hannigan** of sociology, discussing the public's perception of the risks associated with new sustainable energy technologies

Campus tour available for campus visitors at the conclusion of the program.

Faculty and staff from all three campuses are invited. RSVP to ebulletin@utoronto.ca by May 12

the Bulletin

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The top and sidebar art on the front page are composed of elements photographed at Professor Srinivasan's research lab. See story on page 7.

Lieutenant-governor tours International Student Centre

BY ANJUM NAYYAR

April 14 marked the first time since the early 1900s a lieutenant-governor of Ontario has entered the doors of 33 St. George Street, once home to the province's lieutenant-governors. **David Onley**, Ontario's current lieutenant-governor, and his wife, **Ruth Ann Onley**, were welcomed by President **David Naylor** for a special site tour of Cumberland House, now home to the International Student Centre (ISC). Professor **Jill Matus**, vice-provost (students); **Ben Yang**, director of the International Student Centre; and **Dermot Brennan**, program director at ISC, were also on hand to welcome the vice-regal couple.

The tour, which lasted 90 minutes, included an architectural history of the building, historical information about Cumberland House's owners and tenants and current information about the International Student Centre. The Onleys had the opportunity to see architectural drawings of the building, subsequent renovations and pictures of some of the remote areas of the historical U of T building, assembled by Brennan specifically for the occasion.

"I'm thrilled to see so much of the original has been retained," said the lieutenant-governor. "The sense of history just goes right throughout the building. It's a wonderful bit of Ontario history."

Cumberland House was built in 1860 by architect Frederick Cumberland, who also designed University College, as a residence for his family. It became Government House in 1912 and served as an official residence to two former lieutenant-governors of Ontario, John Morison Gibson (1912 to 1914) and

John Strathearn Hendrie (1914 to 1915).

The building is the only Ontario lieutenant-governors' official residence that still stands. While the foundation, footprint and exterior of the building remain largely unchanged, the interior was almost entirely gutted and redesigned by Cumberland's partner William Storm in 1883 as a private residence for the Cosby family.

The University of Toronto bought the house and property in the 1920s; it has since housed a number of U of T departments including history and political science and the Faculty of Law. The International Student Centre moved into the facility in 1966. Within the year, the building was renamed Cumberland House in honour of its architect and original owner.

"We were delighted to be able to introduce the lieutenant-governor to a bit of our shared history," said Naylor. "It's an honour to be able to incorporate a piece of our provincial heritage into campus life."

Onley, who was appointed lieutenant-governor in 2007, is a graduate of the University of Toronto Scarborough. After recovering from polio in childhood, he overcame ongoing mobility challenges to achieve renown for his work as a broadcaster. In that capacity he has been a speaker at both UTSC and at U of T's convocation ceremonies.

This June, the lieutenant-governor will be taking part in those same ceremonies, receiving an honorary degree from U of T June 10 for his lifetime commitment to championing disability and accessibility issues and his pioneering role as a model for those with physical disabilities.

Physician shoots for moon — or at least outer space

BY CATHERINE NGAI

It's every child's fantasy to be able to defy gravity and reach for the stars but Professor **Christopher Denny** may actually have the opportunity to fulfil this dream as an adult.

Denny, an assistant professor of medicine, is one of 16 finalists in the National Astronaut Recruitment Campaign. Two of the 16 will join the Canadian Space Agency (CSA) and explore space for six months.

More than 5,300 people applied for two positions when the campaign — the third in Canadian history — launched in May 2008.

Denny's first "experience" as an astronaut was as a child visiting an Ontario Science Centre module simulating the first moon landing. He recalled landing like Neil Armstrong and aspiring to do so in real life. "The experience was fairly simplistic but realistic." Memories from this childhood experience made him jump when the opportunity opened up last year.

He said taking part in the astronaut competition has been a humbling experience. Denny discovered that his medical background was only one component of the compe-



Professor Christopher Denny of medicine

tion. The CSA interviewed candidates extensively and put them through a series of medical, physical and skills tests. There was a demanding regimen of personality inventories, physical endurance tests, damage control courses, survival tests, robotics courses, motor testing and individual aptitude testing to see if they could meet the demands of astronaut training and space flight.

"It really strips you down," said Denny. "For example, they test to see how far you can swim and how many push-ups and chin-ups you can do."

For Denny, the largest challenge of the competition has been balancing its demands against his other commitments. Besides teaching at the

university, he works as a scientist with the clinical epidemiology unit and staff physician and trauma team leader in emergency medicine at the Sunnybrook Health Sciences Centre. Denny is also a base hospital physician for Toronto Emergency Medical Services, a transport physician for Orange Transport Medicine and a team physician with the City of Toronto's heavy urban search and rescue team.

"I feel like I can contribute because I can act in the role of someone who not only looks after the well-being of the crew but who also contributes as a scientist," said Denny.

The two future astronauts will be chosen in mid-May 2009. Afterwards, they will move to NASA's Johnson Space Center in Houston, Texas, for a year of mission-specialist training. Once NASA confirms the trips for the two astronauts, they will travel to the International Space Station.

Denny noted that this is an extraordinary opportunity.

"I'm in the company of tremendous Canadians."

Meanwhile astronaut **Julie Payette**, a U of T alumna and honorary degree recipient, is returning to the International Space Station in June to attach a platform needed for space experiments.

Tony Blair Faith Foundation awards fellowships to three U of T students

BY LAURIE STEPHENS

Former British prime minister Tony Blair announced April 24 that the Tony Blair Faith Foundation has awarded three fellowships to students at the University of Toronto.

In addition, Blair announced that the university will be the host post-secondary institution for the fellowship program.

"The Tony Blair Faith Foundation program is an exciting exploration of how faith communities can contribute to the common good in civil society," said **Richard Chambers**, director of the university's Multi-Faith Centre. "The choice of three University of Toronto students in the inaugural selection of fellows is a reflection of the university's wider commitment to developing lifelong scholars contributing to ethical decision-making in a multi-faith global society."

The Tony Blair Faith Foundation aims to increase understanding between faith communities throughout the world through interfaith encounter and action. The foundation has launched Faiths Act as an opportunity for people of all faiths to work together in pursuit of the United Nations Millennium Development Goals (MDGs), one of which is the battle against malaria.

The Faiths Act Fellows leadership program will support 30 exceptional young people, aged 18 to 25, from Canada, the United States and Britain as they begin a journey as ambassadors for interfaith service. They will reach up to 30,000 people of faith through outreach activity, informing them about the devastating impact of malaria and the opportunities open to faith communities to work together to save millions of lives.

The fellowships for the three U of T students involve

a 10-month internship to explore the role of faith communities contributing to the common good in civil society. They will be charged with raising awareness about the MDGs and the eradication of malaria. They will get training with Blair in London, a month-long exposure trip to Africa, a \$25,000 stipend, a laptop and a cellphone and a follow-up placement with a host organization in Canada.

"What a wonderful opportunity to have U of T students' contributions to the community acknowledged by the Tony Blair Faith Foundation in such a significant award," said **Lisa Chambers**, director of the Centre for Community Partnerships.

The students chosen, **Hilary Keachie**, **Areeba Jawaid** and **Danny Richmond**, represent three different faiths. Their common bond is their involvement in their faith communities.



Lieutenant-Governor David Onley (left) and his wife, Ruth Ann Onley, join President David Naylor (right) in examining historical information about Cumberland House as Dermot Brennan, program director, explains.

New College principal heads to UTSC

CONTINUED FROM PAGE 1
with reach into the sciences, affording him an understanding of the multidisciplinary goals of UTSC. Much of his scholarly work has been collaborative.

As director of the then-newly created Centre for the Study of the United States, Halpern forged a dynamic academic community by connecting academics from a number of disciplines as well as various government agencies and

business groups in Canada and the U.S., helping them realize their common intellectual ground and building the profile of the new centre.

His work at New College included a restructuring of operations, staffing and student support, as well as new resource-generating initiatives. He has been actively involved in successful advancement endeavours, alumni activities, recruitment strategy and programs and has been committed

to creating a focus on students. His senior administrative experience also includes active participation in the Towards 2030 planning exercise.

"Professor Halpern brings a combination of academic qualifications, administrative experience and leadership style that fit exceptionally well with the demands of the dean's position at this exciting point in U of T Scarborough's continued development," said Principal **Franco Vaccarino**.

Blueprint for new architecture dean

CONTINUED FROM PAGE 1
of Ulster, Northern Ireland, where he has been working with academics, government agencies and designers in private industry to develop innovative design models with which to reform Northern Ireland's cities and towns.

Previously, Sommer was the scholar-in-residence at the California College of Arts in San Francisco for three years. He has also held appointments at the University of Leuven, Belgium; Washington University; Barnard College-Columbia University; and Iowa State University of Science and Technology.

"Because Daniels is already one of the leading schools of its kind in North America, I have the luxury of setting very high goals for its future," Sommer said. "The three disciplines joined at Daniels — architecture, landscape architecture and urban design — each have a unique role to play in creating more beautiful, ecologically sound and socially enriched environments. Yet, the most important design challenges we face today — from the creation of more integrated transit infrastructures to rethinking relationships between home, industry and nature — escape the exclusive purview of any one discipline or professional

expertise. Many of the current approaches to designing and developing our cities and towns are unable to adequately address these challenges. Set within a city that is cosmopolitan in every sense of the word, the Daniels school is in an ideal position to model new modes of practice by drawing on the remarkable community of minds at the University of Toronto and thereby make research and speculation on better ways to design and inhabit the built environment a focus across the university."

Sommer's design practice, research and scholarship have developed along two interrelated lines. The first pertains to reconceiving architecture and urban design's disciplinary basis to better address the competing forces of liberalization in property markets and the increasing expectations for democratic access in city-making processes. The second line of research frames the monument as the historical exemplar of architecture, tracing its transformation through its encounter with modern forms of democracy and the American landscape.

His writings and projects have appeared in publications such as *Perspecta: The Yale Architecture Journal*, the *Journal of Architectural Education*, *ANY*

and *Arcade* and in a number of books, including *Shaping the City: Studies in History*.

"THE DANIELS SCHOOL IS IN AN IDEAL POSITION TO MODEL NEW MODES OF PRACTICE..."

**PROFESSOR
RICHARD SOMMER**

Support for Sommer's research has included awards and grants from the U.S. National Endowment for the Arts and the Graham Foundation for Advanced Studies in the Fine Arts.

A native of Philadelphia, Sommer earned his bachelor of fine arts and bachelor of architecture from the Rhode Island School of Design and his master of architecture from Harvard University. Sommer and his wife, Laura Miller, his architectural partner and a member of Harvard's architecture faculty, will be relocating to Toronto with their family. Miller will also join the John H. Daniels Faculty of Architecture, Landscape, and Design.

Breast cancer, tobacco linked

CONTINUED FROM PAGE 1
inconclusive.

The panel reviewed all available evidence, including important recent data, and concluded that even non-smoking young women face a risk from passive exposure to cigarette smoke. The panel also concluded that the relationship of active smoking to both pre- and post-menopausal breast cancer is consistent with causality, but there is not yet enough evidence to draw a conclusion about the nature of the relationship between exposure to second-hand smoke and breast

cancer for older, post-menopausal women.

The expert panel's report states that 80 to 90 per cent of women have been exposed to tobacco smoke in adolescence and adulthood. These women face an increased risk of breast cancer due to this exposure.

"Even a little bit of exposure early in life is dangerous. What we observed in previous studies in the report was that in both the cases of active and passive smoking they both about doubled the risk of breast cancer," said **Neil Collishaw**, chair of the panel and research director at

Physicians for a Smoke-free Canada.

"It is important from a public health perspective to get the message out to the public, and young women in particular, that available evidence shows that both active smoking and exposure to passive smoke increase the risk of breast cancer," said Miller.

Miller said more research is needed on tobacco smoke and breast cancer risk related to women who are carriers of genetic mutations, such as the BRCA 1 and BRCA 2 mutations, that predispose them to breast cancer.

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Moderator: Dr. Linda Rabeneck, Chief, Odette Cancer Centre


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HEALTH SCIENCES CENTRE

Discovery sheds light on 'Dark' Age

BY CHRISTINE ELIAS

The discovery of a remarkably well-preserved monumental temple in Turkey — thought to be constructed during the time of King Solomon in the 10th-/ninth-century BCE — sheds light on the so-called Dark Age.

Uncovered by the University of Toronto's Tayinat Archaeological Project (TAP) in the summer of 2008, the discovery casts doubt upon the traditional view that the transition from the late Bronze Age to the early Iron Age was violent, sudden and culturally disruptive.

SOME RULING DYNASTIES SURVIVED THE COLLAPSE OF THE GREAT BRONZE AGE POWERS

Ancient sources — such as the Homeric epics and the Hebrew Bible — depict an era of widespread famine, ethnic conflict and population movement, most famously including the migrations of the Sea Peoples (or biblical Philistines) and the Israelites. This is thought to have precipitated a prolonged Dark Age marked by cultural decline and ethnic strife during the early centuries of the Iron Age. But recent discoveries — including the Tayinat excavations — have revealed that some ruling dynasties survived the collapse of the great Bronze Age powers.

"Our ongoing excavations have not only begun to uncover extensive remains from this Dark Age, but the emerging archeological picture suggests that during this

period Tayinat was the capital of a powerful kingdom, the 'Land of Palastin,'" said Professor **Timothy Harrison** of Near Eastern archeology and director of the project.

"Intriguingly, the early Iron Age settlement at Tayinat shows evidence of strong cultural connections, if not the direct presence of foreign settlers, from the Aegean world, the traditional homeland of the Sea Peoples."

Excavations uncovered the temple's southern approach, which once faced a broad stone-paved courtyard and consisted of a monumental staircase and porticoed entrance, supported by a large, ornately carved basalt column base.

In addition, fragments of monumental stelae — stone slabs created for religious or other commemorative purposes — carved in Luwian (an extinct language once spoken in what is now Turkey) hieroglyphic script were found.

The temple's inner sanctuary — also known as its "holy of holies" — will be the focus of the 2009 field season, which begins July 1.

TAP is an international project, involving researchers from a dozen countries and more than 20 universities and research institutes. It also provides research opportunities and training for both graduate and undergraduate students. The project is funded by the Social Sciences and Humanities Research Council and the Institute for Aegean Prehistory and receives support from the University of Toronto. Additional details are available at: www.artsci.utoronto.ca/main/tayinatbackgrounder.

Students create a buzz with green roof research



Professor Mart Gross (rear) of ecology and evolutionary biology is pictured with four of the fourth-year students who presented research posters recently: (left to right) Sarah Hasnain, Sharanya Varatharajan, Natallia Revinskaya and Webnesh Haile.

BY TAMMY THORNE

Among environmentalists, the decline of pollinating insects raises an alarm.

That is what forth-year ecology and evolutionary biology student **Natallia Revinskaya** discovered as she completed her research project on green roofs and biodiversity.

"Urbanization and its effects are a major cause of the decline in pollinator insects," Revinskaya said. "Seventy per cent of the world's 1,300 human food crops are pollinated by insects. So green roofs might be as important for the economy as they are for ecology."

Revinskaya's research showed that of the 13 green roofs she and her classmates studied in downtown Toronto, those with mixed plants are much more effective at attracting pollinators than those with limited plant species.

Professor **Mart Gross**, who

teaches the final year ecology and evolutionary biology (EEB) independent research course, explained the consequences of Revinskaya's research further.

"Without insects there would be no second generation of plants in the wild," he said. "We would also have fewer agricultural crops, without insects. Pollinators are worth billions of dollars in Canada alone. Green roofs provide an environment in which insects can survive when they aren't busy pollinating the urban environment."

He also noted that insects provide nitrogen-rich food for birds; otherwise the city becomes an "environmental sink," attracting many birds but starving them and their babies.

Overall, Gross said, green roofs contribute to the health of the urban environment.

"Green roofs provide an entry point for biodiversity into the city. We need to understand what kind of

biodiversity they can support."

Sarah Hasnain studied the effect green roofs have on arthropods — animals that have more than four jointed legs, including insects and spiders. Hasnain found that green roofs provide the sole habitat in the city for many arthropod orders.

Classmate **Sharanya Varatharajan** concurred; the benefits of green roofs are many. "They provide insulation and regulate the internal climate of buildings, so you don't have to spend as much on heating and air conditioning; they control water runoff, which overloads the sewer system; and they provide much-needed esthetically pleasing green spaces for the city of Toronto."

Meanwhile, **Webnesh Haile** showed how bird species can benefit from green roof design.

These biodiversity research projects culminated in a poster display April 14.

Environmental research front and centre for Earth Day

BY TAMMY THORNE

Earth Day at the Centre for Environment was celebrated in academic style with faculty and students presenting research that included topics such as how climate change uncertainties should influence infrastructure-based environmental assessments, pesticide use reduction programs and Canadian Mining Companies' mining practices in Ecuador.

Professor **Ingrid Stefanovic**, director of the Centre for Environment, said it's important to honour the Earth and the research accomplishments that will help make it a healthier place.

"Celebrating Earth Day is challenging simply because students are so busy studying for final examinations at this time of year," she said. "This year, it seemed like a good idea to mark Earth Day at least by honouring the enormous accomplishments of our faculty and student researchers."

Research Day at the centre is an annual tradition, but this is the first year it was held on Earth Day, April 22. Stefanovic said the tradition was inherited from earlier units that amalgamated to create the Centre for Environment. "The intention was to showcase unique examples of interdisciplinary environmental research undertaken

by both faculty members and students."

Indeed, today it is common knowledge that the environment touches all disciplines. And so as 12 faculty and students presented their recent research to about 50 peers at the Faculty Club, no one was surprised that speakers represented seemingly disparate faculties and departments such as engineering, philosophy, biology, political science, archeology, geography and chemistry.

Raluca Ellis, a PhD candidate in the environmental studies program, presented her findings on the role ammonia plays in the forma-

tion of harmful particulate matter in the air.

Although the research was stimulating, it left a bad taste in the mouths of audience members as Ellis informed them that with "every breath you are inhaling about 2.5 million particles."

"Larger particulate matter that you can sometimes see in the air on really smoggy days is filtered by the nose and the throat but the smaller ones essentially bypass those filters and are small enough to get in the bloodstream," she said. The importance of ammonia is centered around its role in fine particulate matter formation, which has strong impli-

cations on climate change, ecosystem diversity and human health — the ultimate consequence for the latter being cardiac arrest and death.

Ellis noted that a single day celebrating the Earth is not enough. "Earth Day is only as important as people make it. If you only acknowledge it for one day, it's not going to make much of a difference."

Stefanovic agreed. "The Earth should be honoured every day but, at a time when the planet and its resources have been especially taken for granted, Earth Day provides an opportunity to bear witness to the importance of environmental care and stewardship."



Astronomy Rocks

Meteorites and massive telescopes are only part of the attraction space holds for many of us.

Science Rendezvous will ha

Summertime is astronomy time for teachers

COURTESY OF U OF T MISSISSAUGA



BY ANJUM NAYYAR

Grade 9 teachers across the GTA will converge on U of T's St. George campus this summer to learn new ways to incorporate the astronomy curriculum into their classrooms.

The three-day Summer Institute for Astronomy Teachers, to be held Aug. 17 to 19 in the Department of Astronomy and Astrophysics, is a result of a partnership between Professor **John Percy** and his colleague at the Science Teachers Association of Ontario, Malisa Mezenberg.

The institute is targeted at Grade 9 teachers and will be built around a powerful new resource that provides a strategy and framework for teaching the astronomy/space unit in the province's revised curriculum. The resource will be an online document whose main purpose will be to give teachers a framework to teach effectively.

Percy, who's a member of the International Year of Astronomy (IYA) Canada committee and U of T's liaison, said there's a real need for this type of support for teachers.

"There's a special problem: very few schoolteachers, even at the high school level, have any background in astronomy or astronomy teaching. And

there's even more of a problem in elementary school. And with the curriculum revision in 1999, astronomy became a compulsory topic in both grades 6 and 9.

"It so happens that, also in 2009, the Ontario Ministry of Education revised the secondary school science curriculum for September. Unlike in 1999, they are not producing teacher support documents, called unit profiles. And textbooks are problematic; major textbook publishers have trouble finding people who can write the astronomy sections."

The goal of the institute is to train "master teachers" who would then be able to give workshops to their colleagues. The summer institute is sponsored by the Ontario Teachers Federation.

Teachers will learn from and interact with leading researchers in curriculum-related areas; they will experience engaging activities and images; they will help mould the strategy resource into a workshop format that can be delivered across Ontario.

For more than 40 years, Percy has been active in supporting school astronomy curriculum development and teacher training. He also gives workshops annually for the teacher-

Uof T Mississauga

Professor Emeritus John

Percy is on a mission

to improve the teaching

of astronomy at

the grade school

and high school levels.

candidates at OISE, U of T.

The summer institute is part of an overall mission for Percy who is working with the science teachers association to do a multi-part project. It includes developing the strategy/framework resource for teachers to help them with astronomy.

"We have support from the National Research Council, who will translate it. It is designed for online or CD-ROM format."

He said he hopes the summer institute will give confidence to teachers trying to teach the subject.

"The kids have all heard about black holes, which isn't necessarily part of the curriculum but they'll ask the teachers about black holes and the teachers don't know anything about black holes and that will scare the teachers," he said. "Sometimes that can discourage teachers from trying to teach it. So if there's some easy way that you can give them to structure the way they approach a topic and a series of activities that actually gets the students doing most of the research, that actually helps the teachers."

BY ANJUM NAYYAR

The Department of Astronomy and Astrophysics will take centre stage at this year's Science Rendezvous, a day-long science street festival that is expected to attract 20,000 people. In honour of the International Year of Astronomy, the department will host a number of events May 9 that will allow people to get a glimpse of innovations and ideas in astronomy.

"The goal of the Science Rendezvous is to help make science a part of Canadian culture the same way art or music is a part of Canadian culture," said **Mubdi Rahman**, a PhD student in astronomy and astrophysics and organizer for the U of T-led festival.

Tours of observatory telescopes are bound to be popular with visitors. The department will also offer INVENTours, guided tours of research or lab facilities that will allow the public to get a glimpse of where cutting-edge research is conducted in the heart of Toronto. There will also be talks given by astronomers and the public will have a chance to talk to experts.

"We have 8-inch and 16-inch telescopes on top of the physics building. We'll be showing people what an actual observatory is like," said **Bryce Croll**, a PhD student studying extra-solar planets and also in

THE GOAL OF THE SCIENCE RENDEZVOUS IS TO HELP MAKE SCIENCE A PART OF CANADIAN CULTURE THE SAME WAY ART OR MUSIC IS A PART OF CANADIAN CULTURE

PHD STUDENT MUBDI RAHMAN

charge of public astronomy tours. "We'll also have a continuous series of videos and images playing throughout the day on the main science stage which will be accompanied by music. We are also in talks to rent one of the planetarium domes in the ROM to do planetarium shows every 30 minutes."

All of the events except the tours will be occurring in the Bahen Centre for Information Technology on campus.

This festival is the brainchild of U of T chemistry and physics Professor **Dwayne Miller** and will provide

Have visitors seeing stars

attendees an opportunity to experience transformative inventions that have made their mark in Canada. Physics, chemistry, medicine, public health, computer science, biomaterials and biomedical engineering are some of the other disciplines taking part in the festival.

Science Rendezvous encompasses more than 200 free events unfolding in over 20 outdoor and indoor venues across the region. It takes place at carnival-style sites on four major university campuses, in café, market and bookstore conversations and in hands-on shopping mall demonstrations.

One of the other highlights, the Amazing Science Chase, is the science version of the Amazing Race and is expected to have up to 200 participants this year. This event is a live-action problem-solving adventure game with a scientific twist. The participants will become immersed in a gripping storyline and they, as protagonists, will solve clues at certain points to eventually find a resolution to their crisis.

"It's an opportunity for people to get into character. This year the theme is espionage and conspiracies. So people are trying to solve some problem or save the world by running around campus doing activities and finding clues," said Rahman.

Teams of two to four people will follow a series of clues leading them to specific challenge sites around the St. George campus, where they will apply their scientific knowledge and problem-solving skills to find a solution to the challenge. At the end of the day, the team that completes all the challenges in the shortest time will be announced at the closing ceremony, where they will receive their prize.

For more information visit: <http://rendezvous.optics.utoronto.ca>.



Professor Kim Tait of geology



Professor Gopalan Srinivasan of geology and astronomy and astrophysics holds a meteorite fragment from a sample found in India.

'Rock of Ages' offers clues to Earth's formation

BY TAMMY THORNE

Space is a very dangerous place.

There are millions of rocks floating in space, banging into minor planets and asteroids. Some of these space rocks bounce towards Earth and permeate the protective atmospheric layer. When this happens, the rocks, called meteoroids, begin their fiery passage through the Earth's atmosphere. When you wish upon a shooting star, it's really a flaming space rock.

"They are bits of space that come to us," said Professor **Kim Tait** of geology at U of T and associate curator of mineralogy at the Royal Ontario Museum.

Although the atmosphere usually protects the Earth from all of this rubble flying around, when it doesn't, researchers like Tait rejoice because meteorites carry clues about the distant past. Approximately 30,000 meteorites have been found on Earth and the ROM houses about 2,300 fragments. It is the second largest collection in Canada.

U of T geology professor **Gopalan Srinivasan**, cross-appointed to astronomy and astrophysics, said meteorites preserve the records of the earliest stages of the formation of the solar system, which is about 4.6 billion years old.

"For the history of earliest stages, from its inception to first 50 million years, we find clues to the formation and evolution of various solar system bodies preserved only in meteorites because evolved planets like Earth have recycled their crust," he said, adding that meteorites can also help explain the primary chemical composition of the whole Earth and formation of the Earth-moon system.

"Every meteorite has a story," said Tait. Under her tutelage, U of T master's student **Katrina van Drongelen** is writing the story of an "unknown meteorite" — unknown in the sense that the 7.5 kilogram rock has not been studied or classified formally yet.

"I am using various techniques to characterize this meteorite including a petrographic microscope to examine

textures and an electron microprobe to look at chemical changes due to thermal alteration," she explained.

Van Drongelen said it is a dream come true to be able to work with the ROM's great collection and supportive people like Tait.

"Initially I wanted to study astronomy, but in university I took a geology course and fell in love with the science. I found out that I could study planetary materials from a geological perspective and was sold."

"When I do my PhD at U of T, I will study a different type of meteorite called a eucrite, which is very old and will be able to tell me about complex processes that occurred near the very beginning of the solar system. This is quite an exciting project."

Tait said the ROM collection is a veritable gold mine for students of geology. The collection of rare meteorites is part of the Teck Suite of Galleries: Earth's Treasures, which opened December 2008.

The collection's real significance lies not in its size, but its quality. According to available data, the ROM collection contains the highest percentage of the rarest types of meteorites. This includes a piece of Mars and a 1.1 kg lunar specimen, the biggest lunar meteorite on display worldwide.

Arguably, the jewel in the crown of the collection is the Tagish Lake meteorite (pictured on page 6), one of the museum's 15 iconic objects. Tait said it is special for a number of reasons, one of which is the way it was retrieved. "No other meteorite has ever been recovered this way before," she said.

Tagish Lake meteorite fragments were frozen solid in an ice sheet between Northern B.C. and the Yukon and recovered a mere week later by a local resident who used gloves and kept the rocks in a cooler. As a result it is the most pristine meteorite ever found.

Since it fell in winter onto a frozen surface, there is some possibility that it may still contain frozen liquid and gaseous components from outer space.

This would be the first time that such gaseous samples were available for study.

The Tagish Lake meteorite is a member of one of the rarest classes of carbon-rich meteorites, which are rich in organic compounds. It contains minerals and carbon-based chemical compounds dating to the beginnings of the solar system — some may be even pre-solar in origin. Srinivasan said the Tagish Lake sample is "a wonderful piece of meteorite to work with to understand the formation of organic molecules in cold outer reaches of the solar system."

"The Tagish Lake meteorite gives a lot of evidence about the early solar system," he said. "It definitely has some peculiar organic molecules that may give us clues about the organic molecular history of the evolution in the solar nebula and, in a very nebulous way, it may tell us about the evolution of life itself. But those connections are not yet obvious."

METEORITES PRESERVE THE RECORDS OF THE EARLIEST STAGES OF THE FORMATION OF THE SOLAR SYSTEM

PROFESSOR GOPALAN SRINIVASAN

Srinivasan's cosmochemistry lab is currently analysing Nd (Neodymium) isotopes to determine the formation of early reservoirs on planetary bodies, which in turn will tell him about the formation of the Earth's crust. The cosmochemistry lab is identified as a node in the Canadian Lunar Research Network and is involved in radiometric and tracer isotope and trace element systematics of lunar materials. The research also provides clues about the Earth.

"A comparative study of particular Nd isotopes in various reservoirs of Earth, moon, Mars and the asteroid 4-Vesta can tell us about details of evolutionary time scales and the nature of growth of the first 'continent-like crustal material' on these planets," he explained.

Space may be a very dangerous place, but both Tait and Srinivasan would agree it has a lot to tell us about how it all began and meteorites hold some of the most important clues.

Having a Ball



Zachary Guberman, son of Staus of Women Officer Connie Guberman, listens to instructions for creating a rubber-like ball during a tour of the Faculty of Applied Science and Engineering held April 23 on Take Your Daughters and Sons to Work Day.

He Said	She Said
1. I was driving home from work one night, and I saw a car crash.	1. I was driving home from work one night, and I saw a car crash.
2. The car was heading towards me, and I tried to brake.	2. The car was heading towards me, and I tried to brake.
3. It was too late, and I hit it. I didn't know what to do.	3. It was too late, and I hit it. I didn't know what to do.
4. I got out of the car, and I saw the driver was hurt.	4. I got out of the car, and I saw the driver was hurt.
5. I called 911, and they came. They took him to the hospital.	5. I called 911, and they came. They took him to the hospital.
6. He died. I felt terrible. I was so scared.	6. He died. I felt terrible. I was so scared.
7. I stayed at the scene until the police came. They talked to me.	7. I stayed at the scene until the police came. They talked to me.
8. They gave me a statement, and I signed it. I was nervous.	8. They gave me a statement, and I signed it. I was nervous.
9. I went home, and I thought about what happened all day.	9. I went home, and I thought about what happened all day.
10. I was lucky. No one was hurt. I was glad.	10. I was lucky. No one was hurt. I was glad.

Zzz

BY PAUL FRAUMENI

It's three in the afternoon and you're in a meeting and they're on item #14 of a 24-item agenda and you feel it.

For me, it starts in my calves. They feel heavy. I swirl my feet around but the heaviness comes back, lurches up to my forearms, then the back of my neck and then into my eyelids and ...

I'm under. It's an attack of the Meeting Sleepies.

It happens to me often enough that I'll do anything to stay out of a 3 p.m. meeting. The worst ever was in a meeting with an executive (not in Toronto and it was 17 years ago, so don't go trying to figure it out). I had disembarked from a plane an hour before (so I had the Post-Flight Sleepies, a related sleep condition), his office was hot and stuffy and this guy was about as exciting as watching a turkey roast in the oven. He was droning on about — well, I don't know what it was about because I fell fast asleep. For about three minutes! And the weirdest thing? He never had a clue. When I woke up, I heard him saying, "So, is that the kind of information you need?" I just nodded — and skedaddled.

It's happened to me a few times here at U of T, too, but the funniest was in a meeting where many people nodded off. The best part — one person woke up, asked a question, and then went right back to sleep while the speaker was answering.

Remedies? Sugar jolt! Chow down on cookies, pastry or candy, if available. Doodle. Write anything to keep your brain working. For me,

baseball nut that I am, it's batting orders. Or I make lists — Top 10 Pizza Places Outside Toronto, Five Worst Colds I've Had, etc.

Do *not*, however, think of something funny. Once, in feeling the sleepies coming on, I thought of a pal who does an impersonation of Will Ferrell playing jazz flute in *Anchorman*. Yes, the thought kept me awake but I finally had to split and spend a few minutes in the washroom letting the laughter go. The guy in the next stall thought I was nuts.

The best remedy? Ask a question. Just say whatever comes to mind to wake yourself up. For example: So what you're saying is that in 1971, several factors, in addition to the Cincinnati powerhouse, prevented the Dodgers from coming closer than they did. They couldn't win at home, finishing three games under .500, while eating up the opposition on the road. Do I have that right?

And if that doesn't work:

- pull the fire alarm, or
- shout, A mouse! or
- do the one thing that'll get you kicked out of a U of T meeting — ask, What's a BlackBerry, anyway?

And then find a carrel in the library and sleep it off.

P.S. That bit about the Dodgers is from *The Sporting News 1971 Official Baseball Guide*.

Paul Fraumeni is the director of communications for the office of the vice-president (research). He shares this space with Caz Zvyatkauskas.

Visit UTSC for Brunch With *the Bulletin*

BY AILSA FERGUSON

The Bulletin's popular lecture series moves east next month for a May 14 Brunch With *the Bulletin* at U of T Scarborough (UTSC).

The environment will be the focus of the noontime event and organizers hope that the midday time slot will make it easier for members of the U of T community to pay a visit to UTSC. Tours of the campus will be available for attendees from St. George and U of T Mississauga.

“The environment is an area of intense activity on our campus and so it’s fitting that it is the topic of the first Brunch With *the Bulletin* at UTSC,” said Professor **Don Cormack**, chair of physical and environmental science. “We’ve recently hired a number of new faculty in this area and have created a unique professional master’s program and a joint environmental science and technology program with Centennial College. On the research front, we have a multitude of projects underway covering areas as diverse as invasive species, contaminant transport and fate and global change — all contributing to our understanding of global environmental issues.”

The trio of featured speakers have varied perspectives to offer on the environment, a subject that is never far from the headlines. **George Arhonditsis**, a professor in physical and environmental sciences, will talk about the effects of climate change on freshwater ecosystem dynamics. Professor **Rudy Boonstra** of biological sciences plans to talk about the impact climate change is having on the north and Professor **John Hannigan** of sociology will address the public's perception of the risks associated with new sustainable energy technologies.

"If you have never been to UTSC or it's been a long time since your last visit, then now is the ideal time to spend some time here. Not only will you get a unique opportunity to hear from some of our great faculty, you'll also experience our beautiful surroundings in bloom," said Principal **Franco Vaccarino**.

Brunch With *the Bulletin* is part of the newspaper's popular Breakfast With *the Bulletin* lecture series, a series designed to offer faculty and staff food for both body and mind while strengthening a sense of community on campus.

“There are so many fine minds on all three campuses but very few of us have the opportunity to pause and hear them speak,” said Elaine Smith, editor of *the Bulletin*. “Our lectures give people the opportunity to take advantage of the amazing expertise we have while informally sharing a meal with colleagues. *The Bulletin* team is eager to meet our U of T Scarborough colleagues.

Brunch With *the Bulletin* is scheduled for May 14 at noon in the Council Chamber of the Arts Administration Building. Food will be served at noon, with the three talks and a question period following at 12:30. The event, which offers a nice break from routine, will wrap up at 1:30 p.m. It is free of charge to faculty and staff but registration is required at **ebulletin@utoronto**.

Convergence event offers career insights

BY ELAINE SMITH

If you're seeking career advice, additional motivation or new insights into the workplace, the May 6 Career Convergence event is not to be missed.

The Organizational Development and Learning Centre has created a program designed to appeal to U of T staff at any point along their career paths. The event features a keynote speech by career management expert Barbara Moses, a trio of workshops and an interview with Mark Franklin, host of the Career Buzz radio show. The workshops offer guidance on adding joy to the work day, managing your career plan

and networking.

“The University of Toronto prides itself on being a top employer and seeks to help its staff enjoy fulfilling careers,” said **Rosie Parnass**, director of ODLIC. “One way we can assist them is by providing tools they can use to plan their futures and make their current positions even more meaningful.”

Career Convergence takes place May 6 in the atrium of the Bahen Centre at 40 St. George St. and runs from 8:30 a.m. to 12:30 p.m. Staff members from all three campuses are welcome. For registration and information, visit www.utoronto.ca/hrhome/odlc/carconf09/carconf09.htm.



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Charming bungalow rental. 20 minutes to U of T; Danforth/Coxwell subway; 3 bedrooms, 2 baths, parking, garage, A/C, yard, finished basement (with 2nd kitchen); 1-year lease, \$1,750 + utilities; references required; 416-469-1942.

Downtown. May 1. Charming Victorian 2-level reno, 1,200 sq. ft. 3-bedroom or 2-bedroom + den 2 baths, 7 appliances, fireplace, sundeck, laundry, locker, parking/cable available, heat gas, A/C. Steps to U of T, Ryerson, Yonge Street, TTC. Suits professional couple or 3 students. \$2,250 + hydro negotiable. Call 416-955-4656; photos to e-mail.

Annex central. Classy large 2 floors, 2 bedrooms, 2 bathrooms, living room with fireplace, balcony, hardwood floors, open concept dining/kitchen. Walking distance to all amenities downtown. All utilities included laundry. Available May 1. \$2,200/month. Please call 416-436-4491 to visit or contact margarita.ramon@gmail.com for more details.

Furnished 1-bedroom apartment in Forest Hill available as of July/August 2009 for a minimum of 6 months. Steps to subway, well-maintained building. Condo amenities. Utilities included, \$1,600. References needed. No pets. 416-939-8571.

King West & Joe Shuster Way. \$650, utilities included. Unfurnished bedroom in 2-bedroom shared condo for rent.

Unit includes laundry, gas, fireplace, balcony, visitor parking and personal parking space (if needed). Grocery store, gym and 24-hour transit minutes away. Available to a busy professional or senior-year student May 15. Please inquire at 905-301-1684.

Yonge/St. Clair. New condo, 2 minutes to subway and minutes from U of T; hardwood floors, two-bedroom, furnished, central air conditioning, 6 appliances, deck, approximately 730 sq. ft. \$1,850/month, including hydro and Internet for short-term rentals. Call Angela, 416-996-0020; e-mail landt63@rogers.com

Housing for grads/faculty. \$2,400/month including parking at St. George/Bloor TTC. 2-bedroom, 1.5 bath condo in Annex mansion. 1 or 2 year term available. Heather James, Salesperson, HomeLife Realty One Ltd. 416-922-5533.

Central. Furnished 3-bedroom home for rent in coveted Teddington Park. Available July/Aug for one year. Close to Yonge St. & Lawrence, top schools, subway, restaurants, Sunnybrook, Glendon, U of T 20-minute drive downtown. \$5,500. Call Patrice Gale, Sales Rep, Royal LePage Real Estate, 416-487-4311. More information and virtual tour: www.patricegale.com

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Annex/Casa Loma area. Fully furnished house, June 1, 2009 to September 2010; 2 bedrooms; finished basement, lots of charm; steps from Dupont subway; \$1,800 monthly plus utilities; for further information contact etucker@yorku.ca or 416-736-5578.

• Guesthouse •

Guesthouse, walk to U of T. Kitchen, laundry, deck, A/C, wireless Internet, cable TV, coffee and tea. Singles with shared bath from \$65/night. Private bath \$85 per night per person. Breakfast available, three-night minimum stay. Tel: 416-588-0560. E-mail annexguesthouse@canada.com; web: annexguesthouse.com

• Vacation •

Beautiful Muskoka cottage for rent near Gravenhurst on Sunny Lake 1 3/4 hours from Toronto. 3 bedrooms. 1,800 sq. ft. Sandy beach, great views, ideal for weekends or week long holidays all year round. Call 416-782-4530.

Haliburton Highlands. Lovely country house on water available for holidays. Weekend, weekly, monthly rates. See www.pinehillcottage.ca. Contact lmacdowe@interhop.net

Environmentally conscientious? Vacation at the Bruce Peninsula Bird Observatory! Support the work of BPBO, all the while enjoying the privilege of spending quality time at our unique, remote location. Information and registration: www.bpbo.ca

Summer in Laurentians. Beautiful lake-front 3-bedroom 2.5-bathroom chalet facing mountains. Minutes from provincial park trails, world-class golfing; all equipped, canoe, paddle boat, barbeque. Montreal summer festival season (Jazz, Just4Laughs) gorgeous downtown 2-bedroom 2-bath condo. 416-565-2478.

www.TuscanyHolidayVilla.com ... your personal link to Italy for rental accommodations, cooking classes, catering, tours & weddings. Contact us to plan your holiday or special event.

Haliburton. Attractive Scandinavian design cottage. 3 bedrooms. Dishwasher. Canoe. Large deck. Excellent fishing from dock. No beach. No pets. No smoking. Aug. 1-22. \$1,000 a week. Pictures available. 416-929-3704.

Kawartha Highlands cottage for rent in provincial park. Two bedrooms, bunkhouse on point with nearly 400 feet of shoreline. Great scenery, hiking, canoeing, fishing & swimming. Every room boasts a water view. \$850 to \$950 per week. bbz@interlog.com 416-266-5527. http://anstruthercottage.blogspot.com/

• Overseas •

Paris. Upscale, comfortable and centrally located furnished apartments in Notre Dame, Marais and Saint Germain. Please contact 516-977-3318 or cooperl@gmail.com; website: www.rentals-paris.com; personalized Paris apartment hunting services too, www.paris-aparts.com

Provence. South of France. Furnished three-bedroom house, picturesque Puylobier, 20 km from Aix. Available from July for short- or long-term rental. Please contact Beth at 416-588-2580 or b.savan@utoronto.ca; website: www.maisonprovencale.org

Charming house for rent in the south of France: www.leparadis.com or www.gite-catherine.com or 647-344-6718.

Budapest, Hungary. Furnished two-bedroom flat, sleeps 8, for weekly vacation rental. See www.stayinbudapest.com or call Jules Bloch at 416-469-0367.

Health Services

REGISTERED MASSAGE THERAPY. For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 360 Bloor St. West, Suite 504 (Bloor/Spadina). For an appointment call Mindy Hsu, B.A., R.M.T. 416-944-1312.

Feeling anxious, stressed or depressed? Relationship or self-esteem concerns? Want someone to talk with, to help sort things out? Dr. Ellen Greenberg, Psychologist, Bloor & Avenue Road or Eglinton West Subway, 416-944-3799. Covered by extended health.

Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty healthcare benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. E-mail dr.neil.pilkington@rogers.com

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor). drhwhite@rogers.com

Evelyn Sommers, Ph.D., Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge/Bloor. Visit www.ekslibris.ca; call 416-413-1098;

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland St. (Wellesley and Jarvis). 416-570-2957.

Psychoanalysis & psychoanalytic psychotherapy for adolescents, adults, couples. U of T extended health benefits provide coverage. Dr. Klaus Wiedermann, Registered Psychologist, 1033 Bay St., ste. 204, tel: 416-962-6671.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Dr. Carol Musselman, Registered Psychologist. Psychotherapy for depression, anxiety, trauma and other mental health needs, relationship problems, issues related to gender, sexual orientation, disability. Covered by extended health plans. 455 Spadina (at College), #211. 416-568-1100 or cmusselman@oise.utoronto.ca; www.carolmusselman.com

Psychologist providing individual and couples therapy. Work stress, anxiety, depression, personal and relationship concerns and problems with eating, weight and body image. U of T benefits apply. Dr. Sarah Maddocks, 114 Maitland Street (Wellesley and Jarvis). 416-972-1935 ext.3321. smaddocks@sympatico.ca; Sarah Maddocks.

Registered Psychologist & Former Associate Professor Dr. Becky Liddle. Individual and couples counselling. Pre-tenure anxiety, work/life balance, academic productivity, depression, anxiety, LGBT, survivor issues, general psychotherapy.

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May 26, 7 p.m. Toronto Reading Series presents Eric Soblin, Cello Suites, with TSO's Tim Dawson at Commensal Vegetarian Restaurant, 655 Bay St. www.torontoreadingseries.com

English and math tutor required for a grade 7 female. July and August at Bayview and Finch area. Female preferred. Please call 416-575-6770.

A classified ad costs \$30 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number/e-mail address counts as two words.

A cheque or money order payable to University of Toronto must accompany your ad. Visa or Mastercard is acceptable. Ads must be submitted in writing, 10 days before the Bulletin publication date, to Mavic Ignacio-Palanca, Strategic Communications Department, 21 King's College Circle, Toronto, Ontario M5S 3J3.

Ads will not be accepted over the phone. To receive a tearsheet and/or receipt please include a stamped self-addressed envelope. For more information please call (416) 978-2106 or e-mail mavic.palanca@utoronto.ca.

THE H.L. WELSH LECTURES IN PHYSICS 2009

The public lectures are sponsored by the Department of Physics. For further information, call 978-7135 or visit our website at: <http://www.physics.utoronto.ca/welsh>

Back to the Big Bang:
The Large Hadron Collider
Thursday May 7th, 2009
Medical Sciences Auditorium,
King's College Circle, KP 2158: 1:30 p.m.

Lyn Evans
Project leader of the
Large Hadron Collider at CERN

Putting Weirdness to Work:
Quantum Information Science
Thursday May 7th, 2009
Medical Sciences Auditorium,
King's College Circle, KP 2158: 3:30 p.m.

John Preskill
John D. MacArthur Professor of
Theoretical Physics at Caltech

Battling Decoherence:
The Fault-Tolerant Quantum Computer
Friday, May 8th, 2009 Koffler Institute,
KP 108, at the end of Bancroft Avenue.
1:30 p.m.

John Preskill
John D. MacArthur Professor of
Theoretical Physics at Caltech

The Large Hadron Collider
Friday, May 8th, 2009
Koffler Institute, KP 108,
at the end of Bancroft Avenue.
3:15 p.m.

Lyn Evans
Project leader of the
Large Hadron Collider at CERN




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Tales of Slavery:
Narratives of Slavery, the Slave Trade
and Enslavement in Africa
William Doo Auditorium, New College, May 20 to 23

The quest for memories of slavery in traditions, religious practices, literature, folklore, court cases, proverbs, praise poems and wherever scholars can find them

Participants include: Lawrence Hill, Yvette Christianse, Sandra Greene, Ibrahima Thioub, Kofi Anyidoho, Joseph Miller, Carolyn Brown, Paul Lovejoy, Manu Herbstein and others

For further information, consult
www.yorku.ca/tubman/ConferencesWorkshops/Talesofslavery_En

This conference has been made possible with the support of the Jackman Humanities Institute, New College, the Connaught Fund, the West African Research Association, the Centre for Diaspora and Transnational Studies and the Harriet Tubman Institute at York University



LECTURES

**On Guard for Thee?
The Dilemma and Realities of
Law Enforcement and
Intelligence in Canada's
Immigration System.**
Wednesday, April 29

Prof. Arne Kislenko, Ryerson University.
Innis College Town Hall. 10:30 a.m.
Tickets \$6, non-members. *Academy for
Lifelong Learning*

The Science of Well-Being.
Thursday, April 30

Prof. Ulrich Schimmack, psychology,
U of T Mississauga; Canadian
Perspectives series. 2072 South
Building, U of T Mississauga. 10 a.m.
Series tickets \$55, individual lectures
\$12. *U of T Mississauga*

**Shakespeare on the Screen: A
New Renaissance?**
Wednesday, May 6

Philippa Sheppard, Centre for
Reformation & Renaissance Studies.
Innis College Town Hall. 10:30 a.m.
Tickets \$6, non-members. *Academy for
Lifelong Learning*

Galileo's Legacy, 400 Years Later.
Thursday, May 7

Prof. Em. John Percy, chemical and
physical sciences, U of T Mississauga.
Canadian Perspectives series. 2072
South Building, U of T Mississauga.
10 a.m. Series tickets \$55, individual
lectures \$12. *U of T Mississauga*

H.L. Welsh Lectures in Physics.
Thursday, May 7

Lyn Evan, CERN, on Back to the Big
Bang: The Large Hadron Collider; Prof.
John Preskill, California Institute of
Technology, on Putting Weirdness to
Work: Quantum Information Science.
Auditorium, Medical Sciences Building.
1:30 p.m. *Physics*

Friday, May 8

Prof. John Preskill, California Institute
of Technology, on Battling
Decoherence: The Fault-Tolerant
Quantum Computer; Lyn Evans, CERN,
on the Large Hadron Collider. 108
Koffler Institute. 1:30 p.m. *Physics*

**The Heart of Caring
for the Dying.**
Monday, May 11

Roshi Joan Halifax, abbot, Upaya Zen
Center; Sue MacRae lecture on ethics
and patient-centred care. Philippa
Harris Bioethics Library, 88 College St.
5:15 p.m. *Joint Centre for Bioethics*

The Convivial City.
Wednesday, May 13

Pier Giorgio Di Cicco, poet laureate,
Toronto. Innis College Town Hall. 10:30
a.m. Tickets \$6, non-members.
Academy for Lifelong Learning

SEMINARS

**Expert, Public Intellectual,
Laughingstock or Liar? The Role
of the Religion Scholar in the
Public Realm.**
Wednesday, April 29

Prof. Tim Jensen, University of
Southern Denmark. Combination Room,
Trinity College. Noon to 2 p.m.
Advanced Study of Religion

**Public Engagement: A Vehicle
to Enhance Legitimacy
and Fairness in a Wait Time
Management Initiative.**
Wednesday, April 29

Rebecca Bruni, Joint Centre for
Bioethics. Philippa Harris Bioethics
Library, 88 College St. *Joint Centre for
Bioethics*

**Shaping the Embryo: Cellular
Dynamics in Development.**
Friday, May 1

Jennifer Zallen, Sloan-Kettering
Institute. 432 Ramsay Wright Building.
2 p.m. *Cell & Systems Biology*

**Involvement of the p53
Tumour Suppressor Protein
in Replicative Senescence.**
Monday, May 4

Prof. Samuel Benchimol, York
University. 2172 Medical Sciences
Building. 4 p.m. *Laboratory Medicine &
Pathobiology*

**Arts-Based Approaches to
Knowledge Translation in Health
Research: Exploring Theatre and
Dance.**
Thursday, May 7

Profs. Pia Kontos and Katherine
Boydell, Dalla Lana School of Public
Health. 106 Health Sciences Building.
3 to 4:30 p.m. *Qualitative Inquiry Group*

MEETINGS AND CONFERENCES

**Operatics: A Symposium on the
Workings of Opera.**
Friday, May 1

A one-day interdisciplinary symposium
dedicated to the exploration of opera
through the themes of narrative and
performance. Keynote speaker Mary
Ann Smart will speak on Stanislavsky,
Brecht, Fo: Rossini's Comic Operas and
the Conventions of Radical Staging.
Jackman Humanities Building, 170 St.
George St. 9 a.m. to 5 p.m. *Jackman
Humanities Institute*

**Antique Fables and Fairy Toys:
Britten's *A Midsummer Night's
Dream*.**
Saturday, May 9

Opera Exchange: A seminar organized
around the Canadian Opera Company's
production of Britten's *A Midsummer
Night's Dream* featuring Lawrence
Willford, COC tenor, and Katharine,
English, on Shakespeare's romantic
comedy and the adaptation's libretto
and musical setting; Stephen Ralls and
Bruce Ubukata, Aldeburgh Connection,
on the opera in the context of Britten's

life and work; panel of graduate
students; Michael Albano, stage
director of the opera diploma program,
will lead a performance-based
workshop of opera excerpts. Tickets
\$15, faculty \$10, students \$5; 416-363-
8321. Walter Hall, Edward Johnson
Building. 9:30 to 1 p.m. *Jackman
Humanities Institute, Munk Centre for
International Studies, Faculty of Music
and the Canadian Opera Company*

**Challenges of Vaccine Sciences
in the 21st Century.**
Monday, May 11

The objectives of the conference
are to update those interested in
immunization on the range of research
relevant to vaccination programs;
support the development of a network
of vaccine researchers; and provide
strategic direction to vaccine research
in Ontario. Great Hall, Hart House.
9 a.m. to 4 p.m. *Ontario Agency for
Health Protection & Promotion, Ontario
Network for Immunization Sciences
and the Sheela Basrur Centre*

EXHIBITIONS

**DORIS MCCARTHY GALLERY
U OF T SCARBOROUGH
meeting point.**
To April 26

This exhibition presents works by
international artists in which mundane
objects function as facilitators
between two people to construct
different types of relationships or to act
as metaphors for these relationships.
Gallery hours: Tuesday to Friday,
10 a.m. to 4 p.m.; Sunday, noon to 5 p.m.

**THOMAS FISHER RARE BOOK
LIBRARY**
**Werner Pfeiffer (Censor, Villain,
Provocateur, Experimenter):
Book Objects and Artist Books.**
To May 1

This exhibition, the first travelling
exhibition of the artist books and book-
objects of Werner Pfeiffer, features 30
objects made by Pfeiffer using real
books. Hours: Monday to Friday, 9 a.m.
to 5 p.m.

**JUSTINA M. BARNICKE
GALLERY
HART HOUSE**
**South-South:
Interruptions and Encounters.**
To May 19

Each artist's work represents or
explores a site in which some aspect
of African and South Asian history
come together and redefine each
other; part of the South-South
Encounters: Conversations Across
South Asia, Africa and the Caribbean
series. Both galleries. Gallery hours:
Monday to Wednesday, 11 a.m. to
5 p.m.; Thursday and Friday, 11 a.m. to
7 p.m.; Saturday and Sunday, 1 to 5 p.m.

**JOHN W. GRAHAM LIBRARY
TRINITY COLLEGE
Flora and Fauna From the
Saunderson Rare Books Room.**
To May 30

An exhibition celebrating natural
history and the book arts, featuring
diverse botanical and other illustrated
books from the 18th to 20th centuries.

Hours: Monday to Friday, 9 a.m. to 11:45
p.m.; Saturday, 9 a.m. to 8:45 p.m.;
Sunday, 1 to 11:45 p.m.

**BLACKWOOD GALLERY
U OF T MISSISSAUGA
awashawave.**
To May 31

A group exhibition investigating
figurative and literal interpretations of
inundation and the resulting perceptual
tensions and shifts of being one among
many; curated by Christof Migone.
Gallery hours: Monday to Friday, 11
a.m. to 5 p.m.; Sunday, 1 to 4 p.m.

**U OF T ART CENTRE
One Year Drawing Project.**
To August 1

The One Year Drawing Project is an
experimental drawing exchange
involving four of Sri Lanka's most
critically acclaimed contemporary
artists: Muhanned Cader,
Thamotharampillai Shanaathanan,
Chandraguptha Thenuwara and Jagath
Weerasinghe; presented by the South
Asian Visual Arts Centre in
collaboration with UTAC.

Sense of Place.

The show brings together works by 30
artists from Canada and Michigan
exploring the theme of place through
printmaking. Ranging across traditional
print techniques on traditional surfaces
(such as monotypes, etchings,
woodcuts, lithographs and silkscreens)
to digital prints and found objects, the
show maps out the broad field of
contemporary printmaking practice;
organized and circulated by the
Windsor Printmaker's Forum and juried
by Iain Baxter, Nancy Sojka and James
Patten. Hours: Tuesday to Friday, noon
to 5 p.m.; Saturday, noon to 4 p.m.

**ERIC ARTHUR GALLERY
JOHN H. DANIELS FACULTY OF
ARCHITECTURE, LANDSCAPE &
DESIGN**
**architecture e+c work of eline +
carmen corneil 1958 to 2008.**
April 30 to July 17

This exhibition aims to give a sense of
the scope, the composition and the
particularity of the Corneil practice
archive. From five decades of work and
thousands of items, this sampling
suggests some of the architects' main
preoccupations. Hours: Monday to
Friday, 11 a.m. to 7 p.m.; Saturday, noon
to 5 p.m.

MISCELLANY

**Centre for Critical Qualitative
Health Research.**
Thursday, May 7

The Dalla Lana School of Public Health
and the Bloomberg Faculty of Nursing
are launching the Centre for Critical
Qualitative Health Research (CQ), a
centre that offers graduate education
in a collaborative manner for health
sciences faculties and departments
and promotes excellence in research
methodology. 106 Health Sciences
Building. 4:30 to 6 p.m.

BuddhaLoungeToronto.
Thursday, May 7

Launch of monthly salon,

BuddhaLoungeToronto, a gathering of
like-minded people for music, dance
and connecting. Hosted by Helen
Goldstein, formerly of the Yoga Studio.
Library, Hart House. 7 p.m. on. *Hart
House and Green Enterprise Toronto*

Launch of True Patriot Love.
Friday, May 8

Liberal leader Michael Ignatieff
launches his new book *True Patriot
Love: Four Generations in Search of
Canada*. Proceeds to support World
Literacy of Canada's literacy and
community development projects.
Convocation Hall. 7 p.m. Tickets \$20
(balcony) to \$60 (premiere floor seats).
Tickets and information:
www.uoftix.ca. *World Literacy of
Canada*

COMMITTEES

CHAIR, DEPARTMENT OF PHYSICS

A search committee has been
established in the Faculty of Arts &
Science to recommend a chair of the
Department of Physics. Members are:
Professors Meric Gertler, dean (chair);
Rob Baker, vice-dean (graduate
education and research); Julian
Lowman, physical and environmental
sciences, U of T Scarborough; Jon
Abbott, chemistry; and Stephen Morris,
physics; Ruxandra Serbanescu,
teaching staff, physics; Peter Hurley,
administrative staff, physics; Asma Al-
Qasimi, graduate student, and Sarah
Kavassalis, undergraduate student,
physics; and Vera Melnyk, assistant
dean and director, office of the dean
(secretary).

The committee would appreciate
receiving nominations and/or
comments from interested members of
the university community. These should
be submitted by May 5 to Professor
Meric Gertler, dean, Faculty of Arts &
Science, Room 2005, Sidney Smith Hall.

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Photos by *the Bulletin* photo contest's grand prize winner ...

Melissa Heide, a staff member in the advancement office at the University of Toronto Mississauga, garnered the grand prize in *the Bulletin*-eBulletin photo contest with her photo of sheep grazing in Mexico. Now, readers can enjoy a sampling of her other photographs.



- ▲ A portrait of Laura MacDonald, a graduate of the theatre and drama program at U of T Mississauga.



- ▲ Vancouver Aquarium workers guide an injured seal onto a stretcher in Victoria, B.C., so it can be treated and released.



- ▲ A groom and his groomsmen pose on the side of a country road in southwestern Ontario.



- ▲ Sunflowers in the kitchen catch some afternoon sun.



- ▲ The decorations at a wedding reception offer an opportunity to play around with composition, contrast and repetition.